



2762 / TFW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Joseph P. Bigus et al. : Date: March 20, 2006
Group Art Unit: 2762 : IBM Corporation
Serial No.: 09/100,595 : Intellectual Property Law
Filed: June 19, 1998 : Dept. 917, Bldg. 006-1
Examiner: W. Starks : 3605 Highway 52 North
For: OPTIMIZING THE PERFORMANCE OF : Rochester, MN 55901
COMPUTER TASKS USING INTELLIGENT
AGENT WITH MULTIPLE PROGRAM
MODULES HAVING VARIED DEGREES
OF DOMAIN KNOWLEDGE

INFORMATION DISCLOSURE STATEMENT AND PETITION REQUESTING
CONSIDERATION UNDER 37 C.F.R. §1.97(d)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Applicants petition the Commissioner of Patent and Trademark that the information listed on the attached Form PTO/SB/08A be considered by the Office during the pendency of the above entitled application, pursuant to 37 C.F.R. §1.97. In accordance with 37 C.F.R. §1.97(h), the filing of this Information Disclosure Statement and Petition Requesting Consideration shall not constitute an admission that any information cited therein is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b). In the interest of full and complete disclosure to the Office, some or all of the art cited herein may not be considered by Applicant(s) or the Undersigned to be material under the new standard of materiality defined in 37 C.F.R. §1.56(b), enacted March 16, 1992, but may be material under the old standard of materiality defined in 37 C.F.R. §1.56(a), last amended on November 28, 1988, or may merely be technical background which may be of interest to the

03/24/2006 WASFAW1 00000026 090465 09100595

01 FC:1464 130.00 DA

Serial No. 09/100,595
Docket No. RO996-052LB

Examiner. In accordance with 37 C.F.R. §1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.

This Information Disclosure Statement and Petition Requesting Consideration is being filed under 37 C.F.R. §1.97(d) after final office action or notice of allowance, but before payment of the issue fee. The certification specified in 37 C.F.R. §1.97(e) follows below.

The petition fee of \$130.00 set forth in 37 C.F.R. §1.17(i) is to be charged to our Deposit Account No. 09-0465.

Respectfully submitted,

By


Steven W. Roth

Attorney Reg. No. 34,712

Telephone: 1-507-253-1600

CERTIFICATION

I hereby certify that each item of information contained herein was cited in a communication from the patent office in a related patent application not more than three months prior to the filing of this Statement.


Steven W. Roth

March 20, 2006

Date

CERTIFICATE OF MAILING

I hereby certify that this paper is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on March 20, 2006.


Debra A. Peterson

March 20, 2006

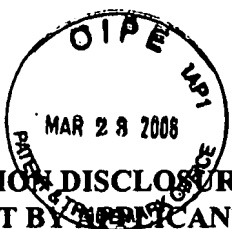
Date

Serial No. 09/100,595
Docket No. RO996-052LB

PTO/SB/08A

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Sheet 1 of 2



Application Number.: 09/100,595
 Filing Date: June 19, 1998
 First Named Inventor: Joseph P. Bigus
 Art Unit: 2762
 Examiner Name: W. Starks
 Attorney Docket Number.: RO996-052LB

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns or Lines Where Relevant Passages or Figs. Appear
		US -			
		US -			
		US -			
		US -			
		US -			
		US -			
		US -			
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		US -			
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FOREIGN PATENT DOCUMENTS

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/WS/		WO 93/21586	10-28-1993			

Examiner Signature	/Wilbert L. Starks, Jr./	Date Considered	09/28/2007
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

PTO/SB/08A

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Sheet 2 of 2

Application Number.: 09/100,595
Filing Date: June 19, 1998
First Named Inventor: Joseph P. Bigus
Art Unit: 2762
Examiner Name: W. Starks
Attorney Docket Number.: RO996-052LB

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

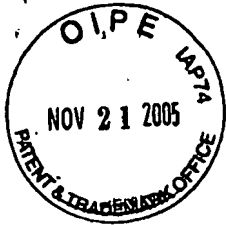
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Examiner Signature	/Wilbert L. Starks, Jr./	Date Considered	09/28/2007
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PATENT

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Joseph P. Bigus et al. : Date: November 18, 2005
Group Art Unit: 2762 : IBM Corporation
Examiner: W. Starks : Intellectual Property Law
Serial No.: 09/100,595 : Dept. 917, Bldg. 006-1
Filed: June 19, 1998 : 3605 Highway 52 North
Title: OPTIMIZING THE PERFORMANCE : Rochester, MN 55901
OF COMPUTER TASKS USING
INTELLIGENT AGENT WITH
MULTIPLE PROGRAM MODULES
HAVING VARIED DEGREES OF
DOMAIN KNOWLEDGE

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NOV 30 2005

Technology Center 2100

INFORMATION DISCLOSURE STATEMENT AND PETITION REQUESTING
CONSIDERATION UNDER 37 C.F.R. §1.97(d)

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

Applicants request that the information listed on the attached Form PTOSB08A be considered by the Office during the pendency of the above entitled application, pursuant to 37 C.F.R. §1.97. In accordance with 37 C.F.R. §1.97(h), the filing of this Information Disclosure Statement shall not constitute an admission that any information cited therein is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b). In the interest of full and complete disclosure to the Office, some or all of the art cited herein may not be considered by Applicant(s) or the Undersigned to be material under the new standard of materiality defined in 37 C.F.R. §1.56(b), enacted March 16, 1992, but may be material under the old standard of materiality defined in 37 C.F.R. §1.56(a), last amended on November 28, 1988, or may merely be technical background which may be of interest to the Examiner. In accordance with 37 C.F.R. §1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.

Docket No. RO996-052LB
Serial No. 09/100,595

1

09100595
11/22/2005 HGBREMI 00000032 090465
01 FC:1806 180.00 DA

PATENT

This Information Disclosure Statement is being filed under 37 C.F.R. §1.97(d) after final office action or notice of allowance, but before payment of the issue fee. The certification specified in 37 C.F.R. §1.97(e) follows below.

The petition fee of \$180.00 set forth in 37 C.F.R. §1.17(i) is to be charged to our Deposit Account No. 09-0465.

Date: November 18, 2005

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on

November 18, 2005

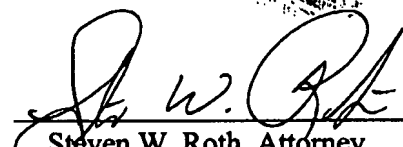
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Lisa M. Plank

Respectfully submitted,

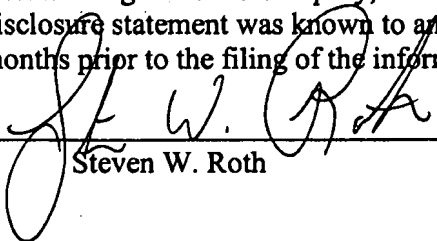
By:



Steven W. Roth, Attorney
Attorney Reg. No.: 34,712
IBM Corporation, Dept 917
3605 Highway 52 North
Rochester, MN 55901-7829
Telephone: (507) 253-1600

CERTIFICATION

I hereby certify that no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the statement after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in §1.56(c) more than three months prior to the filing of the information disclosure statement.


Steven W. Roth

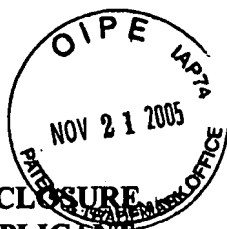
November 18, 2005

Date

PTO/SB/08A

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Sheet 1 of 2



Application Number.: 09/100,595
 Filing Date: June 19, 1998
 First Named Inventor: Bigus
 Art Unit: 3621
 Examiner Name: W. Starks
 Attorney Docket Number.: RO996-054L

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns or Lines Where Relevant Passages or Figs. Appear
/WS/		US - 5,933,647	08-03-1999	Aronberg et al.	
/WS/		US - 2004/0059929	03-25-2004	Rodgers, et al.	
/WS/		US - 6,023,586	02-08-2000	Gaisford et al.	
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FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	Foreign Patent Document Country ³ - Number ⁴ - Kind Code ⁵ Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns or Lines Where Relevant Passages or Figs. Appear	T ⁶

Examiner Signature	/Wilbert L. Starks, Jr./	Date Considered	09/29/2007
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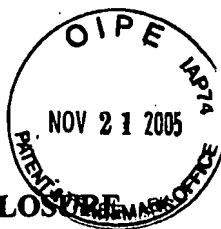
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PTO/SB/08A

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STATEMENT BY APPLICANT**

Sheet 2 of 2



Application Number.: 09/100,595
 Filing Date: June 19, 1998
 First Named Inventor: Bigus
 Art Unit: 3621
 Examiner Name: W. Starks
 Attorney Docket Number.: RO996-054L

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and or country where published.	T ²
W/S/		Hoff, et al., "The Open Software Description Format (OSD)" Aug 11, 1997 W3C	

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Examiner Signature	Wilbert L. Starks, Jr./	Date Considered	09/29/2007
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2762

PATENT



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In re application of: Joseph P. Bigus et al. : Date: September 28, 2005
Group Art Unit: 2762 : IBM Corporation
Examiner: W. Starks : Intellectual Property Law
Serial No.: 09/100,595 : Dept. 917, Bldg. 006-1
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Technology Center 2100

INFORMATION DISCLOSURE STATEMENT AND PETITION REQUESTING
CONSIDERATION UNDER 37 C.F.R. §1.97(d)

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

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Docket No. RO996-052LB
Serial No. 09/100,595

10/03/2005 RHEBRIGHT 00000009 090465 09100595
01 FC:1806 180.00 DA

PATENT

This Information Disclosure Statement is being filed under 37 C.F.R. §1.97(d) after final office action or notice of allowance, but before payment of the issue fee. The certification specified in 37 C.F.R. §1.97(e) follows below.

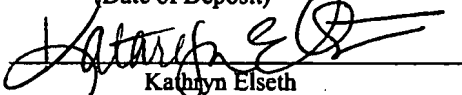
The petition fee of \$180.00 set forth in 37 C.F.R. §1.17(i) is to be charged to our Deposit Account No. 09-0465.

Date: September 28, 2005

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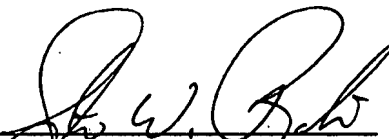
September 28, 2005

(Date of Deposit)


Kathryn Elseth

Respectfully submitted,

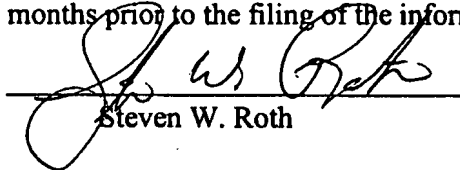
By:



Steven W. Roth, Attorney
Attorney Reg. No.: 34,712
IBM Corporation, Dept 917
3605 Highway 52 North
Rochester, MN 55901-7829
Telephone: (507) 253-1600

CERTIFICATION

I hereby certify that no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the statement after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in §1.56(c) more than three months prior to the filing of the information disclosure statement.


Steven W. Roth

September 28, 2005

Date

PTO/SB/08A


**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
Sheet 1 of 1

Application Number.: 09/100,595
 Filing Date: June 1, 1998
 First Named Inventor: Bigus et al.
 Art Unit: 2762
 Examiner Name: W. Starks
 Attorney Docket Number.: RO996-052LB

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns or Lines Where Relevant Passages or Figs. Appear
		Number - Kind Code ² (if known)			
/WS/		US - 5,704,017	12/30/1997	Heckerman et al.	

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FOREIGN PATENT DOCUMENTS

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		Country ³ - Number ⁴ - Kind Code ⁵ Code (if known)				

Examiner Signature	/Wilbert L. Starks, Jr./	Date Considered	09/29/2007
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Group Art Unit:	2762	:	IBM Corporation
Examiner:	W. Starks	:	Intellectual Property Law
Serial No.:	09/100,595	:	Dept. 917, Bldg. 006-1
Filed:	June 19, 1998	:	3605 Highway 52 North
Title:	OPTIMIZING THE PERFORMANCE OF COMPUTER TASKS USING INTELLIGENT AGENT WITH MULTIPLE PROGRAM MODULES HAVING VARIED DEGREES OF DOMAIN KNOWLEDGE		Rochester, MN 55901

INFORMATION DISCLOSURE STATEMENT AND PETITION REQUESTING
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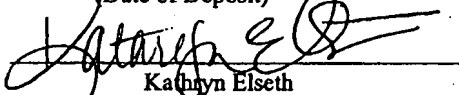
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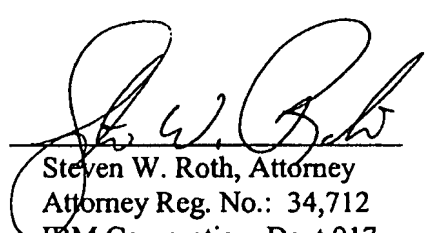
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Kathryn Elseth

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By:


Steven W. Roth, Attorney
Attorney Reg. No.: 34,712
IBM Corporation, Dept 917
3605 Highway 52 North
Rochester, MN 55901-7829
Telephone: (507) 253-1600

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Steven W. Roth

September 28, 2005

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STATEMENT BY APPLICANT**Sheet 1 of 1

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FOREIGN PATENT DOCUMENTS

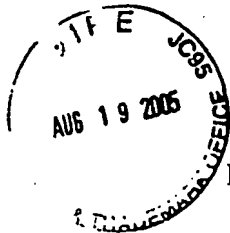
Examiner Initials	Cite No. ¹	Foreign Patent Document Country ³ - Number ⁴ - Kind Code ⁵ Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns or Lines Where Relevant Passages or Figs. Appear	T ⁶

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PATENT

133 2762
AF JJ

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:	Joseph P. Bigus et al.	:	Date: August 17, 2005	RECEIVED AUG 24 2005 Technology Center 2100
Group Art Unit:	2762	:	IBM Corporation	
Examiner:	W. Starks	:	Intellectual Property Law	
Serial No.:	09/100,595	:	Dept. 917, Bldg. 006-1	
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Alexandria, VA 22313-1450

Sir:

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Docket No. RO996-052LB
Serial No. 09/100,595

1

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This Information Disclosure Statement is being filed under 37 C.F.R. §1.97(d) after final office action or notice of allowance, but before payment of the issue fee. The certification specified in 37 C.F.R. §1.97(e) follows below.

The petition fee of \$130.00 set forth in 37 C.F.R. §1.17(i) is to be charged to our Deposit Account No. 09-0465.

Date: August 17, 2005

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on

August 17, 2005

(Date of Deposit)

Debra A. Peterson

Debra A. Peterson

Respectfully submitted,

By: Steven W. Roth

Steven W. Roth, Attorney
Attorney Reg. No.: 34,712
IBM Corporation, Dept 917
3605 Highway 52 North
Rochester, MN 55901-7829
Telephone: (507) 253-1600

CERTIFICATION

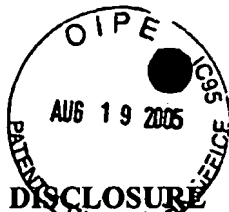
I hereby certify that no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the statement after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in §1.56(c) more than three months prior to the filing of the information disclosure statement.

Steven W. Roth

August 17, 2005

Date

PTO/SB/08A

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
Sheet 1 of 1

Application Number.: 09/100,595
 Filing Date: June 1, 1998
 First Named Inventor: Bigus et al.
 Art Unit: 2762
 Examiner Name: W. Starks
 Attorney Docket Number.: RO996-052LB

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns or Lines Where Relevant Passages or Figs. Appear
/WS/		US - 6,785,834	08-31-2004	Chefalas et al.	
/WS/		US - 6,671,818	12-30-2003	Mikurak, Michael G.	
/WS/		US - 6,151,096	11-21-2000	Cheng et al.	
/WS/		US - 6,145,096	11-7-2000	Bereiter et al.	
/WS/		US - 6,694,314	02-17-2004	Sullivan et al.	
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FOREIGN PATENT DOCUMENTS


Examiner Initials	Cite No. ¹	Foreign Patent Document Country ³ - Number ⁴ - Kind Code ⁵ Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns or Lines Where Relevant Passages or Figs. Appear	T ⁶

Examiner Signature	/Wilbert L. Starks, Jr./	Date Considered	09/29/2007
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⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.



Application Number.: 09/100,595 RECEIVED
Filing Date: June 1, 1998 AUG 24 2005
First Named Inventor: Bigus et al.
Art Unit: 2762 Technology Center 2100
Examiner Name: W. Starks
Attorney Docket Number.: RO996-052LB

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

[illegible]

Examiner Signature	/Wilbert L. Starks, Jr./	Date Considered	09/29/2007
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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:	Joseph P. Bigus et al.	:	Date: August 17, 2005
Group Art Unit:	2762	:	IBM Corporation
Examiner:	W. Starks	:	Intellectual Property Law
Serial No.:	09/100,595	:	Dept. 917, Bldg. 006-1
Filed:	June 19, 1998	:	3605 Highway 52 North
Title:	OPTIMIZING THE PERFORMANCE OF COMPUTER TASKS USING INTELLIGENT AGENT WITH MULTIPLE PROGRAM MODULES HAVING VARIED DEGREES OF DOMAIN KNOWLEDGE		Rochester, MN 55901

INFORMATION DISCLOSURE STATEMENT AND PETITION REQUESTING
CONSIDERATION UNDER 37 C.F.R. §1.97(d)

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

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By:

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3605 Highway 52 North
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Telephone: (507) 253-1600

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Steven W. Roth
Steven W. Roth

August 17, 2005
Date

PTO/SB/08A

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**Sheet 1 of 1

Application Number.: 09/100,595
 Filing Date: June 1, 1998
 First Named Inventor: Bigus et al.
 Art Unit: 2762
 Examiner Name: W. Starks
 Attorney Docket Number.: RO996-052LB

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Examiner Signature	/Wilbert L. Starks, Jr./	Date Considered	09/29/2007
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**Sheet 2 of 2

Application Number.: 09/100,595
 Filing Date: June 1, 1998
 First Named Inventor: Bigus et al.
 Art Unit: 2762
 Examiner Name: W. Starks
 Attorney Docket Number.: RO996-052LB

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and or country where published.	T ²
/WS/		Sim et al; Simulation of a Multi-agent Protocol for Task Allocation in Cooperative Design; IEEE International Conference on Systems, Man, and Cybernetics Proceedings; Vol. 3,; 12-15 Oct. 1999; pp 95-100	
/WS/		Nonogaki et al; FRIEND21 project: a Construction of 21st Century Human Interface; Proceedings of the SIGCHI Conference on Human Factors in Computing Systems: Reaching Through Technology ; March 1991; pp. 407-414	

Examiner Signature	/Wilbert L. Starks, Jr./	Date Considered	09/29/2007
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THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Joseph P. Bigus et al. : Date: July 19, 2004
Group Art Unit: 2762 : IBM Corporation
Examiner: W. Starks : Intellectual Property Law
Serial No.: 09/100,595 : Dept. 917, Bldg. 006-1
Filed: June 19, 1998 : 3605 Highway 52 North
Title: OPTIMIZING THE PERFORMANCE : Rochester, MN 55901
OF COMPUTER TASKS USING
INTELLIGENT AGENT WITH
MULTIPLE PROGRAM MODULES
HAVING VARIED DEGREES OF
DOMAIN KNOWLEDGE

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INFORMATION DISCLOSURE STATEMENT AND PETITION REQUESTING
CONSIDERATION UNDER 37 C.F.R. §1.97(d)

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

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Docket No. RO996-052LB
Serial No. 09/100,595

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PATENT

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Steven W. Roth
Steven W. Roth

July 19, 2004
Date

PTO/SB/08A


**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Sheet 1 of 2

Application Number.: 09/100,595
 Filing Date: June 19, 1998
 First Named Inventor: Joseph P. Bigus
 Art Unit: 2762
 Examiner Name: W. Starks
 Attorney Docket Number.: RO996-052LB

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U.S. PATENT DOCUMENTS

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Examiner Initials*	Cite No. ¹	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns or Lines Where Relevant Passages or Figs. Appear
/WS/		US - 2003/0084010 A1	05-01-2003	Bigus et al.	
/WS/		US - 5,455,890	10-03-1995	Wang	
/WS/		US - 5,790,789	08-04-1998	Suarez	
/WS/		US - 6,021,437	02-01-2000	Chen et al.	
/WS/		US - 6,049,819	04-11-2000	Buckle et al.	
/WS/		US - 6,282,701 B1	08-28-2001	Wygodny et al.	
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Examiner Signature	/Wilbert L. Starks, Jr./	Date Considered	09/29/2007
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PTO/SB/08A


**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Sheet 2 of 2

Application Number.: 09/100,595
 Filing Date: June 19, 1998
 First Named Inventor: Joseph P. Bigus
 Art Unit: 2762
 Examiner Name: W. Starks
 Attorney Docket Number.: RO996-052LB

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and or country where published.	T ²
/WS/		KOPELMAN, "Accelerated Engineering, The 3 Secrets to Just-In-Time Product Development (JITPD)," WESCON/94, Idea/Microelectronics, Conference Record; September 27-29, 1994; pp. 362-367.	
/WS/		STIDOLPH, "Evolutionary Design of Complex Software (EDCS) Demonstration Days 1999," ACM SIGSOFT Engineering Notes; vol. 25, no. 1; January 2000.	
/WS/		PURSSELL, "The Product Release Interface: Environment and Concerns," Fifth Electronic Manufacturing Technology Symposium International "Design-to-Manufacturing Transfer Cycle," October 10-12, 1998, pp. 51-56.	
/WS/		MANDERSON, "Satellite Systems: How to Distribute Data, Computing, Consulting, and Responsibility All at the Same Time," Proceedings of the 17th Annual ACM SIGUCCS Conference on User Services; October 1989.	

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2762#23
PATENT 2762-04
133

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Joseph P. Bigus et al. : Date: July 14, 2004
Group Art Unit: 2762 : IBM Corporation
Examiner: W. Starks : Intellectual Property Law
Serial No.: 09/100,595 : Dept. 917, Bldg. 006-1
Filed: June 19, 1998 : 3605 Highway 52 North
Title: OPTIMIZING THE PERFORMANCE : Rochester, MN 55901
OF COMPUTER TASKS USING
INTELLIGENT AGENT WITH
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INFORMATION DISCLOSURE STATEMENT AND PETITION REQUESTING
CONSIDERATION UNDER 37 C.F.R. §1.97(d)

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

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07/19/2004 KBETEM1 00000060 090465 09100595
01 FC:1460 130.00 DA

Docket No. RO996-052LB
Serial No. 09/100,595

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July 14, 2004

Date

PTO/SB/08A

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Sheet 1 of 1



Application Number.: 09/100,595
 Filing Date: June 19, 1998
 First Named Inventor: Jospeh P. Bigus
 Art Unit: 2762
 Examiner Name: W. Starks
 Attorney Docket Number.: RO996-052LB

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PATENT

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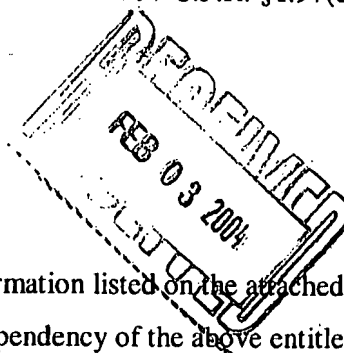
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Commissioner for Patents
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Alexandria, VA 22313-1450

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FEB 02 2004

Technology Center 2100

Applicants request that the information listed on the attached Form PTOSB08A be considered by the Office during the pendency of the above entitled application, pursuant to 37 C.F.R. §1.97. In accordance with 37 C.F.R. §1.97(h), the filing of this Information Disclosure Statement shall not constitute an admission that any information cited therein is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b). In the interest of full and complete disclosure to the Office, some or all of the art cited herein may not be considered by Applicant(s) or the Undersigned to be material under the new standard of materiality defined in 37 C.F.R. §1.56(b), enacted March 16, 1992, but may be material under the old standard of materiality defined in 37 C.F.R. §1.56(a), last amended on November 28, 1988, or may merely be technical background which may be of interest to the Examiner. In accordance with 37 C.F.R. §1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.

Docket No. RO996-052LB
Serial No. 09/100,595

1

01/30/2004 CCHAU1 00000003 090465 09100595
01 FC:1460 130.00 DR

This Information Disclosure Statement is being filed under 37 C.F.R. §1.97(d) after final office action or notice of allowance, but before payment of the issue fee. The certification specified in 37 C.F.R. §1.97(e) follows below.

The petition fee of \$130.00 set forth in 37 C.F.R. §1.17(i) is to be charged to our Deposit Account No. 09-0465.

Date: January 23, 2004

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on

January 23, 2004

(Date of Deposit)

Debra A. Peterson

Debra A. Peterson

Respectfully submitted,

By: Steven W. Roth

Steven W. Roth, Attorney
Attorney Reg. No.: 34,712
IBM Corporation, Dept 917
3605 Highway 52 North
Rochester, MN 55901-7829
Telephone: (507) 253-1600

CERTIFICATION

I hereby certify that no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the statement after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in §1.56(c) more than three months prior to the filing of the information disclosure statement.

Steven W. Roth

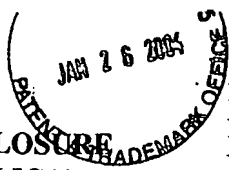
January 23, 2004

Date

PTO/SB/08A

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Sheet 1 of 2



Application Number.: 09/100,595

Filing Date: June 19, 1998

First Named Inventor: Joseph P. Bigus

Art Unit: 2762

Examiner Name: W. Starks

Attorney Docket Number.: RO996-052LB

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns or Lines Where Relevant Passages or Figs. Appear
		US -			
		US -			
		US -			
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		US -			

RECEIVED

FEB 02 2004

Technology Center 2100

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	Foreign Patent Document Country ³ - Number ⁴ - Kind Code ⁵ Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns or Lines Where Relevant Passages or Figs. Appear	T ⁶
/WS/		Japan - PUPA 04-191977	10-07-1992	Satoshi		
/WS/		Japan - PUPA 02-224068	06-09-1990	Shigeru		

Examiner Signature

/Wilbert L. Starks, Jr./

Date Considered

09/29/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

JAN 26 2004
PATENT & TRADEMARK OFFICE 501

Application Number.: 09/100,595
Filing Date: June 19, 1998
First Named Inventor: Joseph P. Bigus
Art Unit: 2762
Examiner Name: W. Starks
Attorney Docket Number.: RO996-052LB

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

[illegible]

Examiner Signature	Wilbert L. Starks, Jr./	Date Considered	09/29/2007.
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional).

² Applicant is to place a check mark here if English language translation is attached.

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:	Joseph P. Bigus et al.	:	Date: January 23, 2004
Group Art Unit:	2762	:	IBM Corporation
Examiner:	W. Starks	:	Intellectual Property Law
Serial No.:	09/100,595	:	Dept. 917, Bldg. 006-1
Filed:	June 19, 1998	:	3605 Highway 52 North
Title:	OPTIMIZING THE PERFORMANCE OF COMPUTER TASKS USING INTELLIGENT AGENT WITH MULTIPLE PROGRAM MODULES HAVING VARIED DEGREES OF DOMAIN KNOWLEDGE		Rochester, MN 55901

INFORMATION DISCLOSURE STATEMENT AND PETITION REQUESTING
CONSIDERATION UNDER 37 C.F.R. §1.97(d)

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

Applicants request that the information listed on the attached Form PTOSB08A be considered by the Office during the pendency of the above entitled application, pursuant to 37 C.F.R. §1.97. In accordance with 37 C.F.R. §1.97(h), the filing of this Information Disclosure Statement shall not constitute an admission that any information cited therein is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b). In the interest of full and complete disclosure to the Office, some or all of the art cited herein may not be considered by Applicant(s) or the Undersigned to be material under the new standard of materiality defined in 37 C.F.R. §1.56(b), enacted March 16, 1992, but may be material under the old standard of materiality defined in 37 C.F.R. §1.56(a), last amended on November 28, 1988, or may merely be technical background which may be of interest to the Examiner. In accordance with 37 C.F.R. §1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.

PATENT

This Information Disclosure Statement is being filed under 37 C.F.R. §1.97(d) after final office action or notice of allowance, but before payment of the issue fee. The certification specified in 37 C.F.R. §1.97(e) follows below.

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(Date of Deposit)

Debra A. Peterson

Debra A. Peterson

Respectfully submitted,

By:

Steven W. Roth

Steven W. Roth, Attorney
Attorney Reg. No.: 34,712
IBM Corporation, Dept 917
3605 Highway 52 North
Rochester, MN 55901-7829
Telephone: (507) 253-1600

CERTIFICATION

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Steven W. Roth

January 23, 2004

Date

PTO/SB/08A

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Sheet 1 of 2

Application Number.: 09/100,595
 Filing Date: June 19, 1998
 First Named Inventor: Joseph P. Bigus
 Art Unit: 2762
 Examiner Name: W. Starks
 Attorney Docket Number.: RO996-052LB

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns or Lines Where Relevant Passages or Figs. Appear
		US -			
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		US -			
		US -			
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		US -			

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	Foreign Patent Document Country ³ - Number ⁴ - Kind Code ⁵ Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns or Lines Where Relevant Passages or Figs. Appear	T ⁶
/WS/		Japan - PUPA 04-191977	10-07-1992	Satoshi		
/WS/		Japan - PUPA 02-224068	06-09-1990	Shigeru		

Examiner Signature	/Wilbert L. Starks, Jr./	Date Considered	09/29/2007
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

PTO/SB/08A

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Sheet 2 of 2

Application Number.: 09/100,595
Filing Date: June 19, 1998
First Named Inventor: Joseph P. Bigus
Art Unit: 2762
Examiner Name: W. Starks
Attorney Docket Number.: RO996-052LB

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and or country where published.	T ²
/WS/		HIROTO KASE et al., "A Development of Programming Supporting Environment for the Agent-Based Programming Language - ADIPS/L," Information Processing Society of Japan, pp (2-337) - (2-338).	
/WS/		KAZUHIRO TAKEYASU et al., "Agent System," Chuou keizai-sha, pp. 159-161.	

Examiner Signature	/Wilbert L. Starks, Jr./	Date Considered	09/29/2007
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¹ Applicant's unique citation designation number (optional).

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:	Joseph P. Bigus et al.	:	Date: July 17, 2003
Group Art Unit:	2762	:	IBM Corporation
Examiner:	W. Starks	:	Intellectual Property Law
Serial No.:	09/100,595	:	Dept. 917, Bldg. 006-1
Filed:	June 19, 1998	:	3605 Highway 52 North
Title:	OPTIMIZING THE PERFORMANCE OF COMPUTER TASKS USING INTELLIGENT AGENT WITH MULTIPLE PROGRAM MODULES HAVING VARIED DEGREES OF DOMAIN KNOWLEDGE	:	Rochester, MN 55901

**INFORMATION DISCLOSURE STATEMENT AND PETITION REQUESTING
CONSIDERATION UNDER 37 C.F.R. §1.97(d)**

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

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Docket No. RO996-052LB
Serial No. 09/100,595

PATENT

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Date: July 17, 2003

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July 17, 2003

(Date of Deposit)

Debra A. Peterson
Debra A. Peterson

Respectfully submitted,

By:

Steven W. Roth
Steven W. Roth, Attorney
Attorney Reg. No.: 34,712
IBM Corporation, Dept 917
3605 Highway 52 North
Rochester, MN 55901-7829
Telephone: (507) 253-1600

CERTIFICATION

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Steven W. Roth
Steven W. Roth

July 17, 2003

Date

PTO/SB/08A

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**Sheet 1 of 1

Application Number.: 09/100,595
 Filing Date: June 19, 1998
 First Named Inventor: Joseph P. Bigus
 Art Unit: 2762
 Examiner Name: W. Starks
 Attorney Docket Number.: RO996-052LB

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns or Lines Where Relevant Passages or Figs. Appear
/WS/		US - 5,905,495	05-18-1999		
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FOREIGN PATENT DOCUMENTS

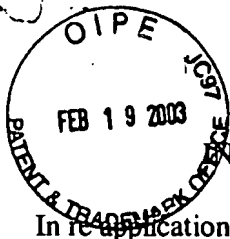
Examiner Initials	Cite No. ¹	Foreign Patent Document Country ³ - Number ⁴ - Kind Code ⁵ Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns or Lines Where Relevant Passages or Figs. Appear	T ⁶

Examiner Signature	/Wilbert L. Starks, Jr./	Date Considered	09/29/2007
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⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.



2122 #22
2762
62543

THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Joseph P. Bigus et al.

Serial No.: 09/100,595

Date: February 12, 2003

Filed: June 19, 1998

Group No.: 2762

For: OPTIMIZING THE PERFORMANCE OF
COMPUTER TASKS USING INTELLIGENT
AGENT WITH MULTIPLE PROGRAM
MODULES HAVING VARIED DEGREES
OF DOMAIN KNOWLEDGE

Examiner: W. Starks

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FEB 24 2003

Technology Center 2100

INFORMATION DISCLOSURE STATEMENT AND PETITION REQUESTING
CONSIDERATION UNDER 37 C.F.R. §1.97(d)

To the Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Applicants petition the Commissioner of Patent and Trademark that the information listed on the attached Form PTO/SB/08A be considered by the Office during the pendency of the above entitled application, pursuant to 37 C.F.R. §1.97. In accordance with 37 C.F.R. §1.97(h), the filing of this Information Disclosure Statement and Petition Requesting Consideration shall not constitute an admission that any information cited therein is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b). In the interest of full and complete disclosure to the Office, some or all of the art cited herein may not be considered by Applicant(s) or the Undersigned to be material under the new standard of materiality defined in 37 C.F.R. §1.56(b), enacted March 16, 1992, but may be material under the old standard of materiality defined in 37 C.F.R. §1.56(a), last amended on November 28, 1988, or may merely be technical background which may be of interest to the Examiner. In accordance with 37 C.F.R. §1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.

02/24/2003 CNGUYEN 00000026 090465 09100595

01 FC:1460 130.00 CH

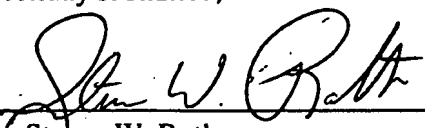
Serial No. 09/100,595
Docket No. RO996-052LB

This Information Disclosure Statement and Petition Requesting Consideration is being filed under 37 C.F.R. §1.97(d) after final office action or notice of allowance, but before payment of the issue fee. The certification specified in 37 C.F.R. §1.97(e) follows below.

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Respectfully submitted,

By


Steven W. Roth

Attorney Reg. No. 34,712

IBM Corporation - Department 917

3605 Highway 52 North

Rochester, Minnesota 55901-7829

Telephone: 1-507-253-1600

CERTIFICATION

I hereby certify that each item of information contained herein was cited in a communication from the patent office in a related patent application not more than three months prior to the filing of this Statement.


Steven W. Roth

February 12, 2003

Date

CERTIFICATE OF MAILING

I hereby certify that this paper is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on February 12, 2003.

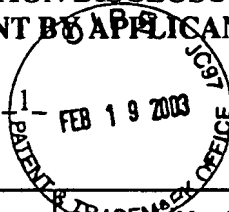

Debra A. Peterson

February 12, 2003

Date

Serial No. 09/100,595
Docket No. RO996-052LB

PTO/SB/08A

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**Sheet 1 of 1

Application Number.: 09/100,595
 Filing Date: June 1, 1998
 First Named Inventor: Bigus et al.
 Art Unit: 2762
 Examiner Name: W. Starks
 Attorney Docket Number.: RO996-052LB

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns or Lines Where Relevant Passages or Figs. Appear
/WS/		US - 5.613.012	03/18/1997	Hoffman et al.	
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FEB 24 2003

Technology Center 2100

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	Foreign Patent Document Country ³ - Number ⁴ - Kind Code ⁵ Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns or Lines Where Relevant Passages or Figs. Appear	T ⁶

Examiner Signature	/Wilbert L. Starks, Jr./	Date Considered	09/29/2007
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5-13-02

#2/2762\$
2122

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Joseph P. Bigus et al.

Date: May 8, 2002

Serial No.: 09/100,595

Group No.: 2762

Filed: June 19, 1998

Examiner: W. Starks

For: OPTIMIZING THE PERFORMANCE OF
COMPUTER TASKS USING INTELLIGENT
AGENT WITH MULTIPLE PROGRAM
MODULES HAVING VARIED DEGREES
OF DOMAIN KNOWLEDGE

RECEIVED
MAY 20 2002
Technology Center 2100

INFORMATION DISCLOSURE STATEMENT AND PETITION REQUESTING
CONSIDERATION UNDER 37 C.F.R. §1.97(d)

To the Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Applicants petition the Commissioner of Patent and Trademark that the information listed on the attached Form PTO-1449 be considered by the Office during the pendency of the above entitled application, pursuant to 37 C.F.R. §1.97. In accordance with 37 C.F.R. §1.97(h), the filing of this Information Disclosure Statement and Petition Requesting Consideration shall not constitute an admission that any information cited therein is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b). In the interest of full and complete disclosure to the Office, some or all of the art cited herein may not be considered by Applicant(s) or the Undersigned to be material under the new standard of materiality defined in 37 C.F.R. §1.56(b), enacted March 16, 1992, but may be material under the old standard of materiality defined in 37 C.F.R. §1.56(a), last amended on November 28, 1988, or may merely be technical background which may be of interest to the Examiner. In accordance with 37 C.F.R. §1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.

05/15/2002 00000002 090465 09082184

Adjustment date: 05/17/2002 SSITHIB1
05/15/2002 05A7A811 00000051 090465 09082184
01 FC:122 130.00 CR

Serial No. 09/100,595
Docket No. RO996-052LB

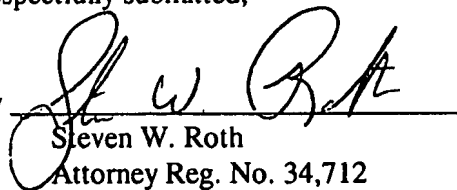
05/17/2002 SSITHIB1 00000002 090465 09100595
01 FC:122 130.00 CH

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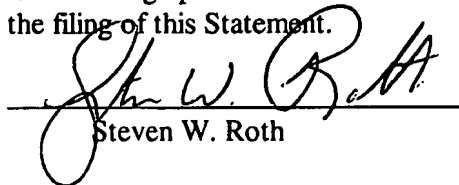
Respectfully submitted,

By


Steven W. Roth
Attorney Reg. No. 34,712
IBM Corporation - Department 917
3605 Highway 52 North
Rochester, Minnesota 55901-7829
Telephone: 1-507-253-1600

CERTIFICATION

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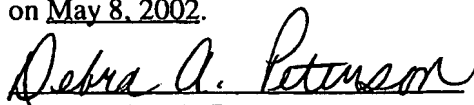

Steven W. Roth

May 8, 2002

Date

CERTIFICATE OF MAILING

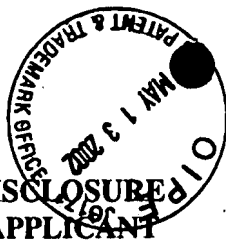
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Debra A. Peterson

May 8, 2002

Date

PTO/SB/08A

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
Sheet 1 of 2

Application Number.: 09/100,595
 Filing Date: June 19, 1998
 First Named Inventor: Joseph P. Bigus et al.
 Art Unit: 2762
 Examiner Name: W. Starks
 Attorney Docket Number.: RO996-052LB

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns or Lines Where Relevant Passages or Figs. Appear
/WS/		US - 5,553,145	09-03-1996	Micali	
/WS/		US - 6,061,792	05-09-2000	Simon	
/WS/		US - 6,085,178	07-04-2000	Bigus et al.	
/WS/		US - 6,147,977	11-14-2000	Thro et al.	
/WS/		US - 6,192,354 B1	02-20-2001	Bigus et al.	
/WS/		US - 6,301,612 B1	10-09-2001	Selitretnikoff et al.	
/WS/		US - 6,345,264 B1	02-05-2002	Breese et al.	
		US -			
		US -			
		US -			
		US -			

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Technology Center 2100

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	Foreign Patent Document Country ³ - Number ⁴ - Kind Code ⁵ Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns or Lines Where Relevant Passages or Figs. Appear	T ⁶

Examiner Signature	/Wilbert L. Starks, Jr./	Date Considered	09/29/2007
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number.: 09/100,595
Filing Date: June 19, 1998
First Named Inventor: Joseph P. Bigus et al.
Art Unit: 2762
Examiner Name: W. Starks
Attorney Docket Number.: RO996-052LB

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

[illegible]

Examiner Signature		Date Considered	
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation/designation number (optional).

² Applicant is to place a check mark here if English language translation is attached.



2D20
CIR-2762
#202122

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Joseph P. Bigus et al.

Serial No.:	09/100,595	Date:	June 19, 2001
Filed:	June 19, 1998	Group No.:	2762
For:	OPTIMIZING THE PERFORMANCE OF COMPUTER TASKS USING INTELLIGENT AGENT WITH MULTIPLE PROGRAM MODULES HAVING VARIED DEGREES OF DOMAIN KNOWLEDGE		Examiner: W. Starks

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JUN 26 2001
Technology Center 2100

INFORMATION DISCLOSURE STATEMENT AND PETITION REQUESTING
CONSIDERATION UNDER 37 C.F.R. §1.97(d)

To the Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Applicants petition the Commissioner of Patent and Trademark that the information listed on the attached Form PTO-1449 be considered by the Office during the pendency of the above entitled application, pursuant to 37 C.F.R. §1.97. In accordance with 37 C.F.R. §1.97(h), the filing of this Information Disclosure Statement and Petition Requesting Consideration shall not constitute an admission that any information cited therein is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b). In the interest of full and complete disclosure to the Office, some or all of the art cited herein may not be considered by Applicant(s) or the Undersigned to be material under the new standard of materiality defined in 37 C.F.R. §1.56(b), enacted March 16, 1992, but may be material under the old standard of materiality defined in 37 C.F.R. §1.56(a), last amended on November 28, 1988, or may merely be technical background which may be of interest to the Examiner. In accordance with 37 C.F.R. §1.97(g), the filing of this Information Disclosure Statement

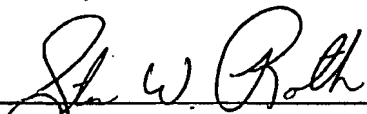
07/03/2001 DHALLI 00000001 000455 00100595
shall not be construed to mean that a search has been made.
01 FC:122 130.00 CH

Serial No. 09/100,595
Docket No. RO996-052LB

This Information Disclosure Statement and Petition Requesting Consideration is being filed under 37 C.F.R. §1.97(d) after final office action or notice of allowance, but before payment of the issue fee. The certification specified in 37 C.F.R. §1.97(e) follows below.

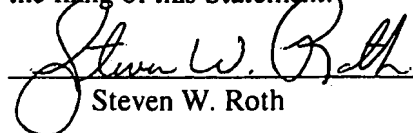
The petition fee of \$130.00 set forth in 37 C.F.R. §1.17(i) is to be charged to our Deposit Account No. 09-0465.

Respectfully submitted,

By 
Steven W. Roth
Attorney Reg. No. 34,712
IBM Corporation - Department 917
3605 Highway 52 North
Rochester, Minnesota 55901-7829
Telephone: 1-507-253-1600

CERTIFICATION

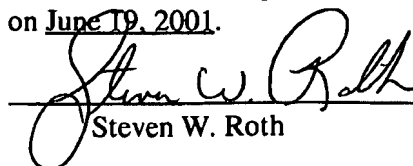
I hereby certify that each item of information contained herein was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement.


Steven W. Roth

June 19, 2001
Date

CERTIFICATE OF MAILING

I hereby certify that this paper is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on June 19, 2001.


Steven W. Roth

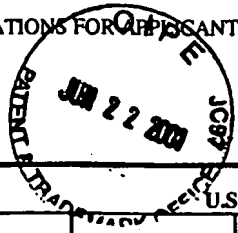
June 19, 2001
Date

Serial No. 09/100,595
Docket No. RO996-052LB

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
R0996-052LBSERIAL NO.
09/100,595LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S
INFORMATION
DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT:
Joseph P. Bigus et al.FILING DATE:
June 19, 1998GROUP:
2762

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE (IF APPRO.)
AA						
AB						
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RECEIVED
JUN 26 2001
Technology Center 2165

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
						YES	NO
AL							
AM							
AN							
AO							
AP							

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

/WS/	AR	Tetsuya Uchiki, "Price Forming Simulation in Electrical Market", Information Processing Society Memoir, Vol. 95, No. 105 (95-AI-102), pp. 1-6, Faculty of Business Administration, Toyo University
	AS	
	AT	

EXAMINER /Wilbert L. Starks, Jr./

DATE CONSIDERED 09/29/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Joseph P. Bigus et al.

Serial No.: 09/100,595

Date: June 19, 2001

Filed: June 19, 1998

Group No.: 2762

For: OPTIMIZING THE PERFORMANCE OF
COMPUTER TASKS USING INTELLIGENT
AGENT WITH MULTIPLE PROGRAM
MODULES HAVING VARIED DEGREES
OF DOMAIN KNOWLEDGE

Examiner: W. Starks

INFORMATION DISCLOSURE STATEMENT AND PETITION REQUESTING
CONSIDERATION UNDER 37 C.F.R. §1.97(d)

To the Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Applicants petition the Commissioner of Patent and Trademark that the information listed on the attached Form PTO-1449 be considered by the Office during the pendency of the above entitled application, pursuant to 37 C.F.R. §1.97. In accordance with 37 C.F.R. §1.97(h), the filing of this Information Disclosure Statement and Petition Requesting Consideration shall not constitute an admission that any information cited therein is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b). In the interest of full and complete disclosure to the Office, some or all of the art cited herein may not be considered by Applicant(s) or the Undersigned to be material under the new standard of materiality defined in 37 C.F.R. §1.56(b), enacted March 16, 1992, but may be material under the old standard of materiality defined in 37 C.F.R. §1.56(a), last amended on November 28, 1988, or may merely be technical background which may be of interest to the Examiner. In accordance with 37 C.F.R. §1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.

Serial No. 09/100,595
Docket No. RO996-052LB

This Information Disclosure Statement and Petition Requesting Consideration is being filed under 37 C.F.R. §1.97(d) after final office action or notice of allowance, but before payment of the issue fee. The certification specified in 37 C.F.R. §1.97(e) follows below.

The petition fee of \$130.00 set forth in 37 C.F.R. §1.17(i) is to be charged to our Deposit Account No. 09-0465.

Respectfully submitted,

By


Steven W. Roth

Attorney Reg. No. 34,712

IBM Corporation - Department 917

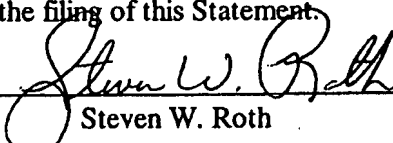
3605 Highway 52 North

Rochester, Minnesota 55901-7829

Telephone: 1-507-253-1600

CERTIFICATION

I hereby certify that each item of information contained herein was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement.

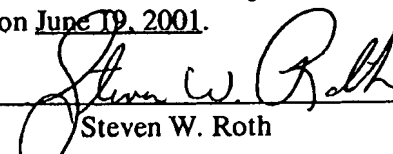

Steven W. Roth

June 19, 2001

Date

CERTIFICATE OF MAILING

I hereby certify that this paper is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on June 19, 2001.


Steven W. Roth

June 19, 2001

Date

FORM PTO-1449 (Modified)

LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S
INFORMATION
DISCLOSURE STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.
R0996-052LBSERIAL NO.
09/100,595APPLICANT:
Joseph P. Bigus et al.FILING DATE:
June 19, 1998GROUP:
2762

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE (IF APPRO.)
AA						
AB						
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AG						
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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
						YES	NO
AL							
AM							
AN							
AO							
AP							

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

/WS/	AR	Tetsuya Uchiki, "Price Forming Simulation in Electrical Market", Information Processing Society Memoir, Vol. 95, No. 105 (95-AI-102), pp. 1-6, Faculty of Business Administration, Toyo University
	AS	
	AT	

EXAMINER /Wilbert L. Starks, Jr./

DATE CONSIDERED 09/29/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Joseph P. Bigus et al.

Serial No.: 09/100,595

Date: February 14, 2000

Filed: June 19, 1998

Group No.: 2762

For: OPTIMIZING THE PERFORMANCE
OF COMPUTER TASKS USING
INTELLIGENT AGENT WITH
MULTIPLE PROGRAM MODULES
HAVING VARIED DEGREES OF
DOMAIN KNOWLEDGE

Examiner: W. Starks, Jr.

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. 1.97

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Applicants request that the information listed on the attached Form PTO-1449 be considered by the Office during the pendency of the above entitled application, pursuant to 37 C.F.R. 1.97. In accordance with 37 C.F.R. 1.97(h), the filing of this Information Disclosure Statement shall not constitute an admission that any information cited therein is, or is considered to be, material to patentability as defined in 37 C.F.R. 1.56(b). In the interest of full and complete disclosure to the Office, some or all of the art cited herein may not be considered by Applicant(s) or the Undersigned to be material under the new standard of materiality defined in 37 C.F.R. 1.56(b), enacted March 16, 1992, but may be material under the old standard of materiality defined in 37 C.F.R. 1.56(a), last amended on November 28, 1988, or may merely be technical background which may be of interest to the Examiner. In accordance with 37 C.F.R. 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.

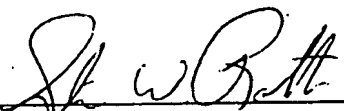
Docket No.: RO996-052LB
Serial No.: 09/100,595

The references listed herein were cited in a search report by a foreign patent office, a copy of which is attached hereto. If any references listed herein are in a language other than English, said foreign search report is submitted in satisfaction of the requirements of 37 C.F.R. 1.98(a)(3). Unless a translation accompanies this Statement, no written English-language translation of any non-English language document, or portion thereof, listed herein, is within the possession custody or control of, or is readily available to any individual designated in 37 C.F.R. 1.56(c).

This Information Disclosure Statement is being filed under 37 C.F.R. 1.97(c) before a final action or notice of allowance. No filing fee is required because each item of information contained herein was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement (certification provided below).

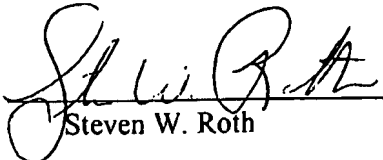
Respectfully submitted,

By


Steven W. Roth
Attorney Reg. No.: 34,712
IBM Corporation - Department 917
3605 Highway 52 North
Rochester, Minnesota 55901-7829
Telephone: 1-507-253-1600

CERTIFICATE OF MAILING

I hereby certify that this paper is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on February 14, 2000.


Steven W. Roth

February 14, 2000

Date

Docket No.: RO996-052LB
Serial No.: 09/100,595

CERTIFICATION

I hereby certify that each item of information contained herein was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement.



Steven W. Roth

February 14, 2000
Date

Docket No.: RO996-052LB
Serial No.: 09/100,595

FORM PTO-1449 (Modified)

LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S
INFORMATION
DISCLOSURE STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.
R0996-052LBSERIAL NO.
098/100,595APPLICANT:
Joseph P. Bigus et al.FILING DATE:
June 19, 1998GROUP:
2762

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

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	AA						
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
							YES	NO
	AL							
	AM							
	AN							
	AO							
	AP							

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

/WS/	AR	D. Johansen et al., "Operating System Support for Mobile Agents," Workshop on Hot Topics in Operating Systems, pp. 42-45, 1995.
/WS/	AS	A. Mensch et al., "REAKT: Real-time Architecture for Time-critical Knowledge-based Systems," Intelligent Systems Engineering, pp. 143-167, Autumn 1994.
/WS/	AT	A. Reinhardt, "The Network with Smarts," 4465 Byte, McGraw-Hill, Inc., Peterborough, NH, US, Vol. 19, No. 10, pp. 51-64, October 1994.

EXAMINER /Wilbert L. Starks, Jr./

DATE CONSIDERED 09/29/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
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09/100,595LIST OF PATENTS AND PUBLICATIONS FOR APPLICANTS
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Joseph P. Bigus et al.

(Use several sheets if necessary)

FILING DATE:
June 19, 1998GROUP:
2762

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

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	BA						
	BB						
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	BI						
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	BK						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
							YES	NO
	BL							
	BM							
	BN							
	BO							
	BP							

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

/WS/	BR	H. Nwana et al., "An Introduction to Agent Technology," BT Technology Journal, Vol. 14, No. 4, pp. 55-67,
		October 1996.
/WS/	BS	A. Rasmusson et al., "Personal Security Assistance for Secure Internet Commerce," New Security Paradigm '96 Workshop,
		On-Line, pp. 1-12, September 16, 1996.
/WS/	BT	W. Farmer et al., "Security for Mobile Agents: Issues and Requirements," Proceedings of the 19th National Information
		Systems Security Conference, On-Line, pp. 1-7, 1996.

EXAMINER

/Wilbert L. Starks, Jr./

DATE CONSIDERED

09/29/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
R0996-052LBSERIAL NO.
09/100,595LIST OF PATENTS AND PUBLICATIONS FOR APPLICANTS
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Joseph P. Bigus et al.

(Use several sheets if necessary)

FILING DATE:
June 19, 1998GROUP:
2762

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE (IF APPRO.)
	CA					
	CB					
	CC					
	CD					
	CE					
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	CG					
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	CI					
	CJ					
	CK					

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
						YES	NO
	CL						
	CM						
	CN						
	CO						
	CP						

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

WS/	CR	F. Hohl, "An Approach to Solve the Problem of Malicious Hosts in Mobile Agent Systems," Universitat Stuttgart, Fakultat Informatik, Bericht Nr. 1997/03, On-Line, pp. 1-13, March 1, 1997.
	CS	
	CT	

EXAMINER

/Wilbert L. Starks, Jr./

DATE CONSIDERED

09/29/2007

EXAMINER: Initial if reference considered. whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



PATENT

IBM/04B

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Joseph Phillip Bigus et al. Art Unit: 2762
Serial No.: 09/100,595 Examiner: Wilbert L. Starks, Jr.
Filed: June 19, 1998 Atty. Docket No.: IBM/04B
For: OPTIMIZING THE PERFORMANCE OF COMPUTER TASKS USING
INTELLIGENT AGENT WITH MULTIPLE PROGRAM MODULES HAVING
VARIED DEGREES OF DOMAIN KNOWLEDGE

#12 1/2
2-16-00
P.C.

FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

In accordance with Applicants' duty of disclosure under the provisions of 37 C.F.R. § 1.56, the references listed on the enclosed Form PTO-1449 are brought to the attention of the Examiner. Copies of the references are also enclosed.

No representation is made that any of the references are "prior art" within the meaning of 35 U.S.C. § 102 or § 103. Moreover, any explanations herein are not to be taken as a representation that the references have been thoroughly reviewed. In particular, no representation as to the relative relevance of any portion of a reference is intended.

Consideration of the references and the remarks presented herein in the above-identified application is respectfully requested. A check for \$240.00 pursuant to 37 CFR 1.97(c) is also enclosed herewith.

If there are any questions regarding this paper, or which might otherwise further this case onto allowance, please contact the undersigned at (513) 241-2324. Moreover, if any other charges or credits are necessary to complete this communication, please apply them to Deposit Account 23-3000.

Respectfully submitted,

14 JAN 2000

Date

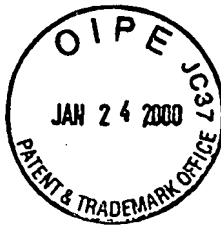
Scott A. Stinebruner

Scott A. Stinebruner
Reg. No. 38,323
WOOD, HERRON & EVANS, L.L.P.
2700 Carew Tower
Cincinnati, Ohio 45202
(513)241-2324

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Joseph Phillip Bigus et al. Art Unit: 2762
Serial No.: 09/100,595 Examiner: Wilbert L. Starks, Jr.
Filed: June 19, 1998 Atty. Docket No.: IBM/04B
For: OPTIMIZING THE PERFORMANCE OF COMPUTER TASKS USING
INTELLIGENT AGENT WITH MULTIPLE PROGRAM MODULES HAVING
VARIED DEGREES OF DOMAIN KNOWLEDGE

TC 2760 MAIL ROOM

IBM/04B

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TRANSMITTAL

Assistant Commissioner for Patents
Washington, DC 20231

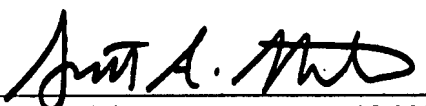
Sir:

We are transmitting herewith the attached:

Transmittal (in duplicate) containing Certificate of Mailing Under 37 CFR 1.8
Fourth Supplemental Information Disclosure Statement
Substitute Form PTO-1449 (1 page)
1 Other Art Reference
A Check for \$240.00 for 37 CFR 1.97(c) Fee
Reply Postcard

Please charge any additional fees or credit overpayment to Deposit Account No. 23-3000.
A duplicate of this sheet is enclosed.

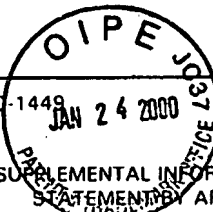
WOOD, HERRON & EVANS, L.L.P.
2700 Carew Tower
Cincinnati, Ohio 45202
(513) 241-2324

By: 
Scott A. Stinebruner Reg. No. 38,323

CERTIFICATE OF MAILING 37 CFR 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Assistant Commissioner for Patents, Washington, D.C. 20231 on January 14, 2000.


Scott A. Stinebruner Reg. No. 38,323



SUBSTITUTE FORM PTO-1449 (MODIFIED) FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) (37 CFR 1.98(b))	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. IBM/04B (R0996-052L)	SERIAL NO. 09/100,595
	APPLICANT Joseph Phillip Bigus et al.		
	FILING DATE June 19, 1998	GROUP 2762	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A.A						
	A.B						
	A.C						
	A.D						
	A.E						
	A.F						
	A.G						
	A.H						
	A.I						
	A.J						
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FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

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/WS/	A.R	Kahn, David, <u>The Codebreakers: The Story of Secret Writing</u> , New York: Scribner, (1996), pp. 224-229.
	A.S	
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/WS/	A.A	4	9	1	4	5	8	5	04/03/90	Packard et al.	364	200	05/23/88	
/WS/	A.B	5	0	7	3	8	9	0	12/17/91	Peter J. Danielsen	370	58.2	12/30/88	
/WS/	A.C	5	1	1	7	4	9	6	05/26/92	Stearns et al.	395	700	05/23/88	
/WS/	A.D	5	1	5	5	7	6	3	10/13/92	Bigus et al.	379	113	12/11/90	
/WS/	A.E	5	2	2	6	1	7	6	07/06/93	Westaway et al.	395	800	08/20/90	
/WS/	A.F	5	2	3	5	6	4	2	08/10/93	Wobber et al.	380	25	07/21/92	
/WS/	A.G	5	2	4	1	6	2	1	08/31/93	Ronald G. Smart	395	51	06/26/91	
/WS/	A.H	5	2	7	6	7	6	8	01/04/94	James L. Bander	395	10	03/20/91	
/WS/	A.I	5	3	0	1	3	2	0	04/05/94	McAtee et al.	395	650	06/28/91	
/WS/	A.J	5	3	1	7	6	8	8	05/31/94	Ralph T. Watson et al.	395	161	02/26/93	
/WS/	A.K	5	3	2	5	5	2	8	06/28/94	Johannes Klein	395	650	04/22/93	

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/WS/	A.L		WO9321586	10/28/93				
/WS/	A.M		WO9500907	01/05/95				
/WS/	A.N		WO9502217	01/19/95				
/WS/	A.O		WO9511560	04/27/95				
/WS/	A.P		WO9515635	06/08/95				
/WS/	A.Q		2061117	02/12/92	Application for Canadian Patent			

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/WS/	A.R	Gilbert et al., "IBM Intelligent Agents", http://www.networking.ibm.com/iag/iagwp1.htm , (1996).
/WS/	A.S	"Commercial Expert System Shells", http://www.ioe.ac.uk/hgm/expert3.html , (1997).
/WS/	A.T	"Commercial Software Packages for Neural Network Simulation", ftp://ftp.sas.com/pub/neural/FAQ6.html , (1997).

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/WS/	B.A	5	3	2	9	6	2	6	07/12/94	Klein et al.	395	375	10/23/90
/WS/	B.B	5	3	6	7	4	5	4	11/22/94	Kawamoto et al.	364	419.20	06/25/93
/WS/	B.C	5	3	6	7	6	3	5	11/22/94	Bauer et al.	395	200	08/29/91
/WS/	B.D	5	3	7	1	8	8	9	12/06/94	Johannes Klein	395	650	04/22/93
/WS/	B.E	5	3	9	2	3	4	5	02/21/95	Mary R. Otto	379	265	04/30/93
/WS/	B.F	5	3	9	8	0	1	2	03/14/95	Jeffrey H. Derby et al.	340	825.03	11/24/92
/WS/	B.G	5	4	0	8	4	7	0	04/18/95	Lewis V. Rothrock et al.	370	62	10/14/93
/WS/	B.H	5	4	2	1	0	1	3	05/30/95	Curtis A. Smith	395	650	07/08/93
/WS/	B.I	5	4	2	3	0	4	3	06/06/95	Fitzpatrick et al.	395	700	01/21/94
/WS/	B.J	5	4	6	5	2	8	6	11/07/95	Clare et al.	379	34	05/24/94
/WS/	B.K	5	4	6	9	5	6	2	11/21/95	Christian D. Saether	395	182.18	06/26/92

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	B.L	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
/WS/	B.L	EP0519109A1	12/23/92	European			Yes
/WS/	B.M	EP0589249A2	03/30/94	European			Yes
/WS/	B.N	EP0598534A1	05/25/94	European			Yes
/WS/	B.O	EP0611210A1	08/17/94	European			Yes
/WS/	B.P	JP3195141	1991	Japan			Yes
/WS/	B.Q	JP4157944	1992	Japan			Yes

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/WS/	B.R	A.D. Kwok et al., "A Development System for Intelligent Agent Manufacturing Software", Integrated Manufacturing Systems, 1994, Vol. 5 No. 4/5, pp.64-76.
/WS/	B.S	Barbara Hayes-Roth, "An architecture for adaptive intelligent systems", Artificial Intelligence, January 1995, Volume 72, Numbers 1-2, pp. 329-365.
/WS/	B.T	Siegfried R. Bocionek, "Agent systems that negotiate and learn", International Journal of Human-Computer Studies, March 1995, Volume 42, No. 3, pp. 265-288.

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WS/	C.A	5	4	8	1	7	1	5		01/02/96	Hamilton et al.	395	700	12/15/93
WS/	C.B	5	4	8	1	6	9	9		01/02/96	Christian D. Saether	395	182.13	03/23/95
WS/	C.C	5	6	0	3	0	3	1		02/11/97	White et al.	395	683	07/08/93
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WS/	C.L	JP4256101	1992	Japan			No
WS/	C.M	JP5324009	1993	Japan			No
WS/	C.N	JP6175944	1994	Japan			Yes
	C.O						
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WS/	C.R	Darrell Woelk et al., "Uncovering the next generation of active objects", <u>OBJECT magazine</u> , July/August 1995, pp. 32-40.
WS/	C.S	Jan Ozer, "Totally Streaming Multimedia", <u>CD-ROM Professional</u> , August 1996, Volume 9 No. 8, pp. 54-66.
WS/	C.T	Barbara Hayes-Roth et al., "A Domain-Specific Software Architecture for Adaptive Intelligent Systems", <u>IEEE Transactions on Software Engineering</u> , April 1995, Vol. 21, No. 4, pp. 288-301.

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/WS/	D.R	Glenn R. Stearns, "Agents and the HP NewWave Application Program Interface", <u>Hewlett-Packard Journal</u> , August 1989, pp. 32-37.
/WS/	D.S	T.J. Grant, "A review of Multi-Agent Systems techniques, with application to Columbus User Support Organisation", <u>Future Generation Computer Systems</u> , May 1992, Volume 7, Number 4, pp. 413-437.
/WS/	D.T	Mufit Ozden, "Intelligent Objects in Simulation", <u>ORSA Journal on Computing</u> , Fall 1994, Vol. 6, No. 4, pp. 329-341.

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WS/	E.R	Peter Gibbons et al., "Intelligent Agents in Multi-Media Systems", <u>Sharp Technical Journal</u> , December 1994, Volume 60, pp. 11-14.
WS/	E.S	Cristano Castelfranchi, "Guarantees for Autonomy in Cognitive Agent Architecture", <u>Proceedings of ECAI-94 Workshop on Agent Theories, Architectures, and Languages</u> , Amsterdam, The Netherlands, August 8-9, 1994, pp. 56-70.
WS/	E.T	Devindra Weerasooriya et al., "Design of a Concurrent Agent-Oriented Language", <u>Proceedings of ECAI-94 Workshop on Agent Theories, Architectures, and Languages</u> , Amsterdam, The Netherlands, August 8-9, 1994, pp. 386-401.

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/WS/	F.S	David Kinny et al., "Planned Team Activity", <u>4th European Workshop on Modelling Autonomous Agents in a Multi-Agent World</u> , MAAMAW '92, S. Martino al Cimino, Italy, July 29-31, 1992, pp. 227-256.
/WS/	F.T	Stephen Marsh, "Trust in Distributed Artificial Intelligence", <u>4th European Workshop on Modelling Autonomous Agents in a Multi-Agent World</u> , MAAMAW '92, S. Martino al Cimino, Italy, July 29-31, 1992, pp. 94-112.

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/WS/	G.T	Siegfried Bocioneck, "Software Secretaries: Learning and Negotiating Personal Assistants for the Daily Office Work", <u>Proceedings of IEEE Int'l. Conf. on Systems, Man and Cybernetics</u> , San Antonio, Texas, Oct. 2-5, 1994, Vol. 1, pp. 7-12.

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WS/	H.S	Rolf Pfeifer et al., "Distributed Adaptive Control: A Paradigm for Designing Autonomous Agents", <u>Toward a Practice of Autonomous Systems, Proceedings of the First European Conf. on Artificial Life</u> , Paris, France, Dec. 1991, pp. 21-30.
WS/	H.T	Alison Cawsey et al., "A Comparison of Architectures for Autonomous Multi-Agent Communication", <u>Proceedings of the 10th European Conference on Artificial Intelligence</u> , Vienna, Austria, August 3-7, 1992, pp. 249-251.

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/WS/	I.R	Paul Kearney et al., "Emergent Behaviour in a Multi-Agent Economic Situation", <u>Proceedings of the 11th European Conference on Artificial Intelligence</u> , Amsterdam, The Netherlands, August 8-12, 1994, pp. 284-288.					
/WS/	I.S	Wayne Wobcke, "Reasoning about Action from the Perspective of Situation Semantics, <u>Proceedings of the 6th Australian Joint Conference on Artificial Intelligence</u> , Melbourne, Australia, November 16-19, 1993, pp. 71-76.					
/WS/	I.T	Gunilla A. Sundstrom et al., "Cooperative Human-Computer Decision Making: An Experiment and Some Design Implications", <u>Proceedings of the Human Factors and Ergonomics Society 38th Annual Meeting</u> , Nashville, Tennessee, October 24-28, 1994, pp. 220-224.					
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/WS/	J.S.	Lech Polkowski et al., "Introducing Rough Mereological Controllers: Rough Quality Control", Proceedings of RSSC '94 3rd Int'l. Workshop on Rough Sets and Soft Computing, San Jose, California, Nov. 10-12, 1994.
/WS/	J.T.	Terence J. Parr et al., "A Language for Creating and Manipulating VRML", Symposium on the VRML '95, San Jose, California, December 14-15, 1995, pp. 123-131.

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	K.I						
	K.J						
	K.K						

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	K.L						
	K.M						
	K.N						
	K.O						
	K.P						
	K.Q						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

/WS/	K.R	Joseph P. Bigus, <u>Data Mining with Neural Networks</u> , McGraw-Hill Publishing Company, 1996.
/WS/	K.S	David M. Chess, "Security Considerations in Agent-Based Systems", <u>For the 1st Annual Conference on Emerging Technologies and Applications in Communications</u> , Portland, Oregon, May 7-10, 1996.
	K.T	

EXAMINER /Wilbert L. Starks, Jr./

DATE CONSIDERED

09/29/2007

EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered. Include a copy of this form with next communication to applicant.

PATENT

IBM/04B

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Joseph Phillip Bigus et al. Art Unit: 2762
Serial No.: 09/100,595 Examiner: Wilbert L. Starks, Jr.
Filed: June 19, 1998 Atty. Docket No.: IBM/04B
For: OPTIMIZING THE PERFORMANCE OF COMPUTER TASKS USING
INTELLIGENT AGENT WITH MULTIPLE PROGRAM MODULES HAVING
VARIED DEGREES OF DOMAIN KNOWLEDGE

TRANSMITTAL

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

We are transmitting herewith the attached:

Transmittal (in duplicate) containing Certificate of Mailing Under 37 CFR 1.8
Third Supplemental Information Disclosure Statement
Substitute Form PTO-1449 (1 page)
1 Other Art Reference
Check for \$240.00 for 37 CFR 1.97(c) Fee
Reply Post Card

Please charge any additional fees or credit overpayment to Deposit Account No. 23-3000.
A duplicate of this sheet is enclosed.

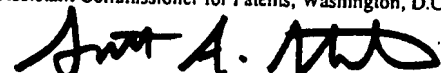
WOOD, HERRON & EVANS, L.L.P.
2700 Carew Tower
Cincinnati, Ohio 45202
(513) 241-2324

By:


Scott A. Stinebruner Reg. No. 38,323

CERTIFICATE OF MAILING 37 CFR 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Assistant Commissioner for Patents, Washington, D.C. 20231 on November 17, 1999.


Scott A. Stinebruner Reg. No. 38,323

SUBSTITUTE FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. IBM/O4B (R0996-052L)	SERIAL NO. 09/100,595
THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				APPLICANT Joseph Phillip Bigus et al.	
(37 CFR 1.98(b))				FILING DATE June 19, 1998	GROUP 2762

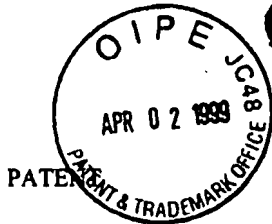
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A.A						
	A.B						
	A.C						
	A.D						
	A.E						
	A.F						
	A.G						
	A.H						
	A.I						
	A.J						
	A.K						

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS							
		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	A.L						
	A.M						
	A.N						
	A.O						
	A.P						
	A.Q						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)		
/WS/	A.R	Bruce Schneier, <u>Applied Cryptography, Second Edition: Protocols, Algorithms, and Source Code in C</u> , John Wiley & Sons, Inc. (1996), pp. v-xiv and 1-10.
	A.S	
	A.T	

EXAMINER /Wilbert L. Starks, Jr./	DATE CONSIDERED 09/29/2007
--------------------------------------	-------------------------------

EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered. Include a copy of this form with next communication to applicant.



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APR 12 1999

IBM/04B

7
4-14-99
P.2

Group 2700

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Joseph Phillip Bigus et al.

Art Unit: 2762

Serial No.: 09/100,595

Examiner: Unknown

Filed: June 19, 1998

Atty. Docket No.: IBM/04B

For: OPTIMIZING THE PERFORMANCE OF COMPUTER TASKS USING
INTELLIGENT AGENT WITH MULTIPLE PROGRAM MODULES
HAVING VARIED DEGREES OF DOMAIN KNOWLEDGE (AS
AMENDED)

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

In accordance with Applicants' duty of disclosure under the provisions of 37 C.F.R. § 1.56, the references listed on the enclosed Form PTO-1449 are brought to the attention of the Examiner. Copies of the references are also enclosed.

No representation is made that any of the references are "prior art" within the meaning of 35 U.S.C. § 102 or § 103. Moreover, any explanations herein are not to be taken as a representation that the references have been thoroughly reviewed. In particular, no representation as to the relative relevance of any portion of a reference is intended.

Consideration of the references and the remarks presented herein in the above-identified application is respectfully requested.

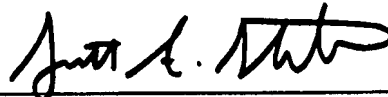
If there are any questions regarding this paper, or which might otherwise further this case onto allowance, please contact the undersigned at (513)241-2324. Moreover, if

any other charges or credits are necessary to complete this communication, please apply them to Deposit Account 23-3000.

24 MAR 1999

Date

Respectfully submitted,



Scott A. Stinebruner

Reg. No. 38,323

WOOD, HERRON & EVANS, L.L.P.

2700 Carew Tower

Cincinnati, Ohio 45202

(513)241-2324

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
IBM/04B (R0996-052L)SERIAL NO.
09/100,595SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENT BY APPLICANTAPPLICANT
Joseph Phillip Bigus et al.**RECEIVED**

(Use several sheets if necessary)

FILING DATE
June 19, 1998GROUP
2762

APR 12 1999

(37 CFR 1.98(b))

U.S. PATENT & TRADEMARK OFFICE

Group 2700

EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/WS/	A.A	4	8	8	1	2	6	3	11/14/89	Herbison et al.	380	21	09/25/87
/WS/	A.B	5	3	5	5	4	4	4	10/11/94	Chirico	395	51	10/25/93
/WS/	A.C	5	4	6	5	3	0	8	11/07/95	Hutcheson et al.	382	159	08/25/93
/WS/	A.D	5	6	4	6	9	9	8	07/08/97	Stambler	380	25	05/22/95
/WS/	A.E	5	6	8	9	6	5	2	11/18/97	Lupien et al.	395	237	04/27/95
/WS/	A.F	5	6	9	6	8	2	8	12/09/97	Koopman, Jr.	380	46	09/22/95
/WS/	A.G	5	7	1	5	3	1	2	02/03/98	Ijtsma	380	3	04/01/96
/WS/	A.H	5	7	1	7	9	8	9	02/10/98	Tozzoli et al.	705	37	10/13/94
/WS/	A.I	5	7	6	5	0	2	8	06/09/98	Gladden	395	11	05/07/96
/WS/	A.J	5	7	9	0	7	8	9	08/04/98	Suarez	395	200.32	08/02/96
	A.K												

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

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	A.L						
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	A.O						
	A.P						
	A.Q						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

/WS/	A.R	Tuomas Sandholm et al. "Issues in Automated Negotiation and Electronic Commerce: Extending the Contract Net Framework", First International Conference on Multi-Agent Systems, (June 1995), pp. 328-335.
/WS/	A.S	Database 636 (IAC Newsletter) on Dialog, No. 3263922, "General Magic attempts to pull Glory from Web Hat", Network Briefing, (July 19, 1996), 2 pages.
/WS/	A.T	Database 148 (IAC Trade & Industry Database), No. 4056305, Katy Ring, "Neural Networks, knowledge systems, genetic algorithms at Cambridge Consultants", Computergram International, (July 17, 1989), 3 pages.

EXAMINER /Wilbert L. Starks, Jr./

DATE CONSIDERED

09/29/2007

EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Substitute Disclosure Form (PTO-1449)

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
IBM/04B (R0996-052L)SERIAL NO.
09/100,595SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENT BY APPLICANTAPPLICANT
Joseph Phillip Bigus et al.

(37 CFR 1.98(b))

(Use several sheets if necessary)

FILING DATE
June 19, 1998GROUP
2762

U.S. PATENT & TRADEMARK OFFICE

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	B.A						
	B.B						
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	B.F						
	B.G						
	B.H						
	B.I						
	B.J						
	B.K						

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	B.L						
	B.M						
	B.N						
	B.O						
	B.P						
	B.Q						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

WSI	B.R	Gregory E. Kersten et al., "Negotiation in Distributed Artificial Intelligence: Drawing from Human Experience", <u>Proceedings of the Twenty-Seventh Annual Hawaii International Conference on System Sciences</u> , (1994), pp. 258-270.
WSI	B.S	Jim R. Oliver, "On Artificial Agents for Negotiation in Electronic Commerce", <u>Proceedings of the 29th Annual Hawaii International Conference on System Sciences</u> , (1996), pp. 337-346.
WSI	B.T	Edward A. Billard, "Effects of Group Size on Goal-Directed Agents in Distributed Environments", IEEE Publication No. 0-7803-2559-1/95, (1995), pp. 3403-3408.

EXAMINER

/Wilbert L. Starks, Jr./

DATE CONSIDERED

09/29/2007

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PATENT

IBM/04B

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Joseph Phillip Bigus et al. Art Unit: 2762
Serial No.: 09/100,595 Examiner: Unknown
Filed: June 19, 1998 Atty. Docket No.: IBM/04B
For: OPTIMIZING THE PERFORMANCE OF COMPUTER TASKS USING
INTELLIGENT AGENT WITH MULTIPLE PROGRAM MODULES
HAVING VARIED DEGREES OF DOMAIN KNOWLEDGE (AS
AMENDED)

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

In accordance with Applicants' duty of disclosure under the provisions of 37 C.F.R. § 1.56, the references listed on the enclosed Form PTO-1449 are brought to the attention of the Examiner. Copies of the references are also enclosed.

No representation is made that any of the references are "prior art" within the meaning of 35 U.S.C. § 102 or § 103. Moreover, any explanations herein are not to be taken as a representation that the references have been thoroughly reviewed. In particular, no representation as to the relative relevance of any portion of a reference is intended.

Consideration of the references and the remarks presented herein in the above-identified application is respectfully requested.

If there are any questions regarding this paper, or which might otherwise further this case onto allowance, please contact the undersigned at (513)241-2324. Moreover, if

SUBSTITUTE FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. IBM/048 (R0996-052L)		SERIAL NO. 09/100,595	
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				APPLICANT Joseph Phillip Bigus et al.			
(37 CFR 1.98(b))				FILING DATE June 19, 1998		GROUP 2762	

U.S. PATENT DOCUMENTS														
EXAMINER INITIAL	A	B	PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/WS/	A.A	4	8	8	1	2	6	3	11/14/89	Herbison et al.	380	21	09/25/87	
/WS/	A.B	5	3	5	5	4	4	4	10/11/94	Chirico	395	51	10/25/93	
/WS/	A.C	5	4	6	5	3	0	8	11/07/95	Hutcheson et al.	382	159	08/25/93	
/WS/	A.D	5	6	4	6	9	9	8	07/08/97	Stambler	380	25	05/22/95	
/WS/	A.E	5	6	8	9	6	5	2	11/18/97	Lupien et al.	395	237	04/27/95	
/WS/	A.F	5	6	9	6	8	2	8	12/09/97	Koopman, Jr.	380	46	09/22/95	
/WS/	A.G	5	7	1	5	3	1	2	02/03/98	Ijtsma	380	3	04/01/96	
/WS/	A.H	5	7	1	7	9	8	9	02/10/98	Tozzoli et al.	705	37	10/13/94	
/WS/	A.I	5	7	6	5	0	2	8	06/09/98	Gladden	395	11	05/07/96	
/WS/	A.J	5	7	9	0	7	8	9	08/04/98	Suarez	395	200.32	08/02/96	
	A.K													

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS							
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	A.P						
	A.Q						

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/WS/	A.S	Database 636 (IAC Newsletter) on Dialog, No. 3263922, "General Magic attempts to pull Glory from Web Hat", Network Briefing, (July 19, 1996), 2 pages.
/WS/	A.T	Database 148 (IAC Trade & Industry Database), No. 4056305, Katy Ring, "Neural Networks, knowledge systems, genetic algorithms at Cambridge Consultants", Computergram International, (July 17, 1989), 3 pages.

EXAMINER /Wilbert L. Starks, Jr./	DATE CONSIDERED 09/29/2007
---	--------------------------------------

EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered. Include a copy of this form with next communication to applicant.

SUBSTITUTE FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. IBM/04B (R0996-052L)	SERIAL NO. 09/100,595		
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				APPLICANT Joseph Phillip Bigus et al.			
				FILING DATE June 19, 1998		GROUP 2762	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	B.A.						
	B.B.						
	B.C.						
	B.D.						
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	B.G.						
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	B.I.						
	B.J.						
	B.K.						
FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS							
		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	B.L.						
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	B.N.						
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	B.P.						
	B.Q.						
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/WS/	B.S	Jim R. Oliver, "On Artificial Agents for Negotiation in Electronic Commerce", <u>Proceedings of the 29th Annual Hawaii International Conference on System Sciences</u> , (1996), pp. 337-346.					
/WS/	B.T	Edward A. Billard, "Effects of Group Size on Goal-Directed Agents in Distributed Environments", IEEE Publication No. 0-7803-2559-1/95, (1995), pp. 3403-3408.					
EXAMINER /Wilbert L. Starks, Jr./				DATE CONSIDERED 09/29/2007			
EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered. Include a copy of this form with next communication to applicant.							

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Joseph P. Bigus et al. : Date: December 14, 1998
Group Art Unit: 2762 : IBM Corporation
Examiner: Unassigned : Intellectual Property Law
Serial No.: 09/100,595 : Dept. 917, Bldg. 006-1
Filed: June 19, 1998 : 3605 Highway 52 North
Title: PROGRAM PRODUCT FOR : Rochester, MN 55901
OPTIMIZING THE PERFORMANCE
OF COMPUTER TASKS USING
INTELLIGENT AGENT WITH
MULTIPLE PROGRAM MODULES
HAVING VARIED DEGREES OF
DOMAIN KNOWLEDGE

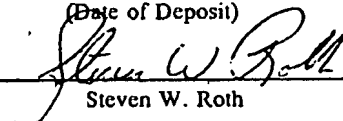
Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

I hereby certify that this correspondence is
being deposited with the United States Postal
Service as first class mail in an envelope
addressed to: Assistant Commissioner for
Patents, Washington, D.C. 20231, on

December 14, 1998

(Date of Deposit)


Steven W. Roth

INFORMATION DISCLOSURE STATEMENT

Applicants request that the information listed on the attached Form PTO-1449
be considered by the Office during the pendency of the above entitled application,
pursuant to 37 C.F.R. 1.97. In accordance with 37 C.F.R. 1.97(h), the filing of this
Information Disclosure Statement shall not constitute an admission that any
information cited therein is, or is considered to be, material to patentability as defined
in 37 C.F.R. 1.56(b). In the interest of full and complete disclosure to the Office,
some or all of the art cited herein may not be considered by Applicant(s) or the
Undersigned to be material under the new standard of materiality defined in
37 C.F.R. 1.56(b), enacted March 16, 1992, but may be material under the old
standard of materiality defined in 37 C.F.R. 1.56(a), last amended on

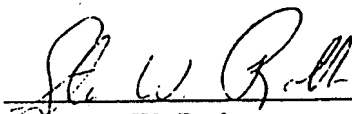
Serial No. 09/100,595
Docket No. RO996-052LB

November 28, 1988, or may merely be technical background which may be of interest to the Examiner. In accordance with 37 C.F.R. 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.

The references listed herein were cited in a search report by a foreign patent office, a copy of which is attached hereto. If any references listed herein are in a language other than English, said foreign search report is submitted in satisfaction of the requirements of 37 C.F.R. 1.98(a)(3). Unless a translation accompanies this Statement, no written English-language translation of any non-English language document, or portion thereof, listed herein, is within the possession custody or control of, or is readily available to any individual designated in 37 C.F.R. 1.56(c).

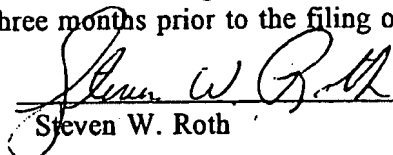
This Information Disclosure Statement is being filed under 37 C.F.R. 1.97(c) before a final action or notice of allowance. No filing fee is required because each item of information contained herein was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement (certification provided below).

Respectfully submitted,

By 
Steven W. Roth
Attorney Reg. No. 34,712
Telephone: (507) 253-1600
Fax: (507) 253-2382

CERTIFICATION

I hereby certify that each item of information contained herein was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement.


Steven W. Roth

December 14, 1998
Date

FORM PTO-1449 (Modified)

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION
DISCLOSURE STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.
RO996-052LBSERIAL NO.
09/100,595APPLICANT:
Joseph P. Bigus et al.FILING DATE:
June 19, 1998GROUP:
2762

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIALS		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB- CLASS	FILING DATE (IF APPRO.)
	AA	5	7	6	1	6	6	3	06/02/98	Konrad Charles Lagarde et al.	707	10	05/15/97
	AB												
	AC												
	AD												
	AE												
	AF												
	AG												
	AH												
	AI												
	AJ												
	AK												

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
													YES	NO
	AL													
	AM													
	AN													
	AO													
	AP													

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

/WS/	AR	Selker, Ted, "Coach: A Teaching Agent that Learns," Communication of the ACM, Vol. 37, No. 7,											
		July 1994, pp. 92-99.											
	AS												
	AT												

EXAMINER /Wilbert L. Starks, Jr./

DATE CONSIDERED 09/29/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

PATENT

IBM/04B

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Joseph Phillip Bigus et al. Art Unit: 2762
Serial No.: 09/100,595 Examiner: Unknown
Filed: June 19, 1998 Atty. Docket No.: IBM/04B
For: PROGRAM PRODUCT FOR OPTIMIZING THE PERFORMANCE OF
COMPUTER TASKS USING INTELLIGENT AGENT WITH MULTIPLE
PROGRAM MODULES HAVING VARIED DEGREES OF DOMAIN
KNOWLEDGE

TRANSMITTAL

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

We are transmitting herewith the attached:

Transmittal (in duplicate) containing Certificate of Mailing Under 37 CFR 1.8
Information Disclosure Statement
Form PTO-1449 (11 pages)
Reply Post Card

Please charge any additional fees or credit overpayment to Deposit Account No. 23-3000.
A duplicate of this sheet is enclosed.

WOOD, HERRON & EVANS, L.L.P.
2700 Carew Tower
Cincinnati, Ohio 45202
(513) 241-2324

By:


Scott A. Stinebruner Reg. No. 38,323

CERTIFICATE OF MAILING 37 CFR 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Assistant Commissioner for Patents, Washington, D.C. 20231 on August 28, 1998.


Scott A. Stinebruner Reg. No. 38,323

PATENT

IBM/04B

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Joseph Phillip Bigus et al. Art Unit: 2762
Serial No.: 09/100,595 Examiner: Unknown
Filed: June 19, 1998 Atty. Docket No.: IBM/04B
For: PROGRAM PRODUCT FOR OPTIMIZING THE PERFORMANCE OF
COMPUTER TASKS USING INTELLIGENT AGENT WITH MULTIPLE
PROGRAM MODULES HAVING VARIED DEGREES OF DOMAIN
KNOWLEDGE

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

In accordance with Applicants' duty of disclosure under the provisions of 37 C.F.R.
§ 1.56, the references listed on the enclosed Form PTO-1449 are brought to the attention of the
Examiner.

It is also brought to the attention of the Examiner the following co-pending U.S. Patent
Applications, all filed in the name of Joseph Phillip Bigus et al.:

<u>Serial No.</u>	<u>Filing Date</u>	<u>Title</u>	<u>Docket No.</u>
08/821,935	March 21, 1997	INTELLIGENT AGENT WITH NEGOTIATION CAPABILITY AND METHOD OF NEGOTIATION THEREWITH	IBM/02
08/822,119	March 21, 1997	APPARATUS AND METHOD FOR COMMUNICATING BETWEEN AN INTELLIGENT AGENT AND CLIENT COMPUTER PROCESS USING DISGUISED MESSAGES	IBM/03
08,826,107	March 21, 1997	APPARATUS AND METHOD FOR OPTIMIZING THE PERFORMANCE OF COMPUTER TASKS USING MULTIPLE INTELLIGENT AGENTS HAVING VARIED DEGREES OF DOMAIN KNOWLEDGE	IBM/01

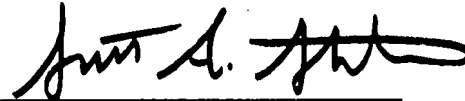
Each of the references was cited in the parent for the above-identified application, U.S. Serial No. 08/822,993, filed on March 21, 1997 by Joseph Phillip Bigus et al. and entitled "APPARATUS AND METHOD FOR OPTIMIZING THE PERFORMANCE OF COMPUTER TASKS USING INTELLIGENT AGENT WITH MULTIPLE PROGRAM MODULES HAVING VARIED DEGREES OF DOMAIN KNOWLEDGE". Accordingly, no copies of the references are provided.

No representation is made that any of the references are "prior art" within the meaning of 35 U.S.C. § 102 or § 103. Moreover, any explanations herein are not to be taken as a representation that the references have been thoroughly reviewed. In particular, no representation as to the relative relevance of any portion of a reference is intended.

Consideration of the references and the remarks presented herein in the above-identified application is respectfully requested.

If there are any questions regarding this paper, or which might otherwise further this case onto allowance, please contact the undersigned at (513)241-2324. Moreover, if any other charges or credits are necessary to complete this communication, please apply them to Deposit Account 23-3000.

Respectfully submitted,



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28 AUG 1998
Date

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
IBM/O4B (R0996-052L)SERIAL NO.
09/100,595INFORMATION DISCLOSURE
STATEMENT BY APPLICANTAPPLICANT
Joseph Phillip Bigus et al.

(Use several sheets if necessary)

(37 CFR 1.98(b))

FILING DATE
June 19, 1998GROUP
2762

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/WS/	A.A	4 9 1 4 5 8 5	04/03/90	Packard et al.	364	200	05/23/88
/WS/	A.B	5 0 7 3 8 9 0	12/17/91	Peter J. Danielsen	370	58.2	12/30/88
/WS/	A.C	5 1 1 7 4 9 6	05/26/92	Stearns et al.	395	700	05/23/88
/WS/	A.D	5 1 5 5 7 6 3	10/13/92	Bigus et al.	379	113	12/11/90
/WS/	A.E	5 2 2 6 1 7 6	07/06/93	Westaway et al.	395	800	08/20/90
/WS/	A.F	5 2 3 5 6 4 2	08/10/93	Wobber et al.	380	25	07/21/92
/WS/	A.G	5 2 4 1 6 2 1	08/31/93	Ronald G. Smart	395	51	06/26/91
/WS/	A.H	5 2 7 6 7 6 8	01/04/94	James L. Bander	395	10	03/20/91
/WS/	A.I	5 3 0 1 3 2 0	04/05/94	McAtee et al.	395	650	06/28/91
/WS/	A.J	5 3 1 7 6 8 8	05/31/94	Ralph T. Watson et al.	395	161	02/26/93
/WS/	A.K	5 3 2 5 5 2 8	06/28/94	Johannes Klein	395	650	04/22/93

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	A.L	WO9321586	10/28/93				
	A.M	WO9500907	01/05/95				
	A.N	WO9502217	01/19/95				
	A.O	WO9511560	04/27/95				
	A.P	WO9515635	06/08/95				
/WS/	A.Q	2061117	02/12/92	Application for Canadian Patent			

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/WS/	A.R	Gilbert et al., "IBM Intelligent Agents", http://www.networking.ibm.com/iag/iagwp1.htm , (1996).
/WS/	A.S	"Commercial Expert System Shells", http://www.ioe.ac.uk/hgm/expert3.html , (1997).
/WS/	A.T	"Commercial Software Packages for Neural Network Simulation", ftp://ftp.sas.com/pub/neural/FAQ6.html , (1997).

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/Wilbert L. Starks, Jr./

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09/29/2007

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/WS/	B.A 5 3 2 9 6 2 6	07/12/94	Klein et al.	395	375	10/23/90	
/WS/	B.B 5 3 6 7 4 5 4	11/22/94	Kawamoto et al.	364	419.20	06/25/93	
/WS/	B.C 5 3 6 7 6 3 5	11/22/94	Bauer et al.	395	200	08/29/91	
/WS/	B.D 5 3 7 1 8 8 9	12/06/94	Johannes Klein	395	650	04/22/93	
/WS/	B.E 5 3 9 2 3 4 5	02/21/95	Mary R. Otto	379	265	04/30/93	
/WS/	B.F 5 3 9 8 0 1 2	03/14/95	Jeffrey H. Derby et al.	340	825.03	11/24/92	
/WS/	B.G 5 4 0 8 4 7 0	04/18/95	Lewis V. Rothrock et al.	370	62	10/14/93	
/WS/	B.H 5 4 2 1 0 1 3	05/30/95	Curtis A. Smith	395	650	07/08/93	
/WS/	B.I 5 4 2 3 0 4 3	06/06/95	Fitzpatrick et al.	395	700	01/21/94	
/WS/	B.J 5 4 6 5 2 8 6	11/07/95	Clare et al.	379	34	05/24/94	
/WS/	B.K 5 4 6 9 5 6 2	11/21/95	Christian D. Saether	395	182.18	06/26/92	
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/WS/	B.L EP0519109A1	12/23/92	European			Yes	
/WS/	B.M EP0589249A2	03/30/94	European			Yes	
/WS/	B.N EP0598534A1	05/25/94	European			Yes	
/WS/	B.O EP0611210A1	08/17/94	European			Yes	
/WS/	B.P JP3195141	1991	Japan			Yes	
/WS/	B.Q JP4157944	1992	Japan			Yes	
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/WS/	B.R	A.D. Kwok et al., "A Development System for Intelligent Agent Manufacturing Software", <i>Integrated Manufacturing Systems</i> , 1994, Vol. 5 No. 4/5, pp.64-76.					
/WS/	B.S	Barbara Hayes-Roth, "An architecture for adaptive intelligent systems", <i>Artificial Intelligence</i> , January 1995, Volume 72, Numbers 1-2, pp. 329-365.					
/WS/	B.T	Siegfried R. Bocionek, "Agent systems that negotiate and learn", <i>International Journal of Human-Computer Studies</i> , March 1995, Volume 42, No. 3, pp. 265-288.					
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/WS/	C.A.	5	4	8	1	7	1	5	01/02/96	Hamilton et al.	395	700	12/15/93
/WS/	C.B.	5	4	8	1	6	9	9	01/02/96	Christian D. Saether	395	182.13	03/23/95
/WS/	C.C.	5	6	0	3	0	3	1	02/11/97	White et al.	395	683	07/08/93
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	C.L.	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
/WS/	C.L.	JP4256101	1992	Japan			No
/WS/	C.M.	JP5324009	1993	Japan			No
/WS/	C.N.	JP6175944	1994	Japan			Yes
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	C.Q.						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)		
	C.R.	Darrell Woelk et al., "Uncovering the next generation of active objects", <u>OBJECT</u> magazine, July/August 1995, pp. 32-40.
	C.S.	Jan Ozer, "Totally Streaming Multimedia", <u>CD-ROM Professional</u> , August 1996, Volume 9 No. 8, pp. 54-66.
	C.T.	Barbara Hayes-Roth et al., "A Domain-Specific Software Architecture for Adaptive Intelligent Systems", <u>IEEE Transactions on Software Engineering</u> , April 1995, Vol. 21, No. 4, pp. 288-301.

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/WS/	D.R	Glenn R. Stearns, "Agents and the HP NewWave Application Program Interface", <u>Hawlett-Packard Journal</u> , August 1989, pp. 32-37.
/WS/	D.S	T.J. Grant, "A review of Multi-Agent Systems techniques, with application to Columbus User Support Organisation", <u>Future Generation Computer Systems</u> , May 1992, Volume 7, Number 4, pp. 413-437.
/WS/	D.T	Mufit Ozden, "Intelligent Objects in Simulation", <u>ORSA Journal on Computing</u> , Fall 1994, Vol. 6, No. 4, pp. 329-341.

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/WS/	E.R	Peter Gibbons et al., "Intelligent Agents in Multi-Media Systems", <u>Sharp Technical Journal</u> , December 1994, Volume 60, pp. 11-14.
/WS/	E.S	Cristano Castelfranchi, "Guarantees for Autonomy in Cognitive Agent Architecture", <u>Proceedings of ECAI-94 Workshop on Agent Theories, Architectures, and Languages</u> , Amsterdam, The Netherlands, August 8-9, 1994, pp. 56-70.
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/WS/	F.R	Agostino Poggi, "DAISY: an Object-Oriented System for Distributed Artificial Intelligence", <u>Proceedings of ECAL-94 Workshop on Agent Theories, Architectures, and Languages</u> , Amsterdam, The Netherlands, August 8-9, 1994, pp. 341-354.
/WS/	F.S	David Kinny et al., "Planned Team Activity", <u>4th European Workshop on Modelling Autonomous Agents in a Multi-Agent World</u> , MAAMAW '92, S. Martino al Cimino, Italy, July 29-31, 1992, pp. 227-256.
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/WS/	G.R	Beerud Sheth et al., "Evolving Agents For Personalized Information Filtering", <u>Proceedings of the Ninth Conference on Artificial Intelligence for Applications</u> , Orlando, Florida, March 1-5, 1993, pp. 345-352.
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/WS/	G.T	Siegfried Bocionek, "Software Secretaries: Learning and Negotiating Personal Assistants for the Daily Office Work", <u>Proceedings of IEEE Int'l. Conf. on Systems, Man and Cybernetics</u> , San Antonio, Texas, Oct. 2-5, 1994, Vol. 1, pp. 7-12.

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/WS/	I.R	Paul Kearney et al., "Emergent Behaviour in a Multi-Agent Economic Situation", <u>Proceedings of the 11th European Conference on Artificial Intelligence</u> , Amsterdam, The Netherlands, August 8-12, 1994, pp. 284-288.					
/WS/	I.S	Wayne Wobcke, "Reasoning about Action from the Perspective of Situation Semantics, <u>Proceedings of the 6th Australian Joint Conference on Artificial Intelligence</u> , Melbourne, Australia, November 16-19, 1993, pp. 71-76.					
/WS/	I.T	Gunilla A. Sundstrom et al., "Cooperative Human-Computer Decision Making: An Experiment and Some Design Implications", <u>Proceedings of the Human Factors and Ergonomics Society 38th Annual Meeting</u> , Nashville, Tennessee, October 24-28, 1994, pp. 220-224.					
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/WS/	J.T	Terence J. Parr et al., "A Language for Creating and Manipulating VRML", <u>Symposium on the VRML '95</u> , San Jose, California, December 14-15, 1995, pp. 123-131.

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PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
IBM/048 (R0996-052L)SERIAL NO.
09/100,595INFORMATION DISCLOSURE
STATEMENT BY APPLICANTAPPLICANT
Joseph Phillip Bigus et al.

(Use several sheets if necessary)

FILING DATE
June 19, 1998GROUP
2762

(37 CFR 1.98(b))

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	K.A.						
	K.B.						
	K.C.						
	K.D.						
	K.E.						
	K.F.						
	K.G.						
	K.H.						
	K.I.						
	K.J.						
	K.K.						

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	K.L.						
	K.M.						
	K.N.						
	K.O.						
	K.P.						
	K.Q.						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

WS/	K.R.	Joseph P. Bigus, <u>Data Mining with Neural Networks</u> , McGraw-Hill Publishing Company, 1996.
WS/	K.S.	David M. Chess, "Security Considerations in Agent-Based Systems", <u>For the 1st Annual Conference on Emerging Technologies and Applications in Communications</u> , Portland, Oregon, May 7-10, 1996.
	K.T.	

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